

=> s l1/p

L2 17 L1/P

=> s (tin or sn or organotin)

246802 TIN

193661 SN

10343 ORGANOTIN

L3 337853 (TIN OR SN OR ORGANOTIN)

=> s l1 and l2

54 L1

L4 17 L1 AND L2

=> s l2 and l3

L5 1 L2 AND L3

=> d all

L5 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2004 ACS on STN

AN 2004:902366 CAPLUS

DN 141:366611

ED Entered STN: 28 Oct 2004

TI Addition reaction process for making 3-allylsuccinic anhydride from maleic anhydride and propylene in the presence of **organotin** chloride catalysts

IN Gunn, Euen; Galland, Jean-Christophe; Didillon, Blaise; Delacroix, Thomas

PA Rhodia Inc., USA

SO PCT Int. Appl., 15 pp.

CODEN: PIXXD2

DT Patent

LA English

IC ICM C07D307-60

CC 35-2 (Chemistry of Synthetic High Polymers)

Section cross-reference(s): 27, 67

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2004092152	A1	20041028	WO 2004-US10870	20040409
	W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW				
	RW: BW, GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM, AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG				
	US 2004220414	A1	20041104	US 2004-822237	20040409
PRAI	US 2003-461878P	P	20030410		
	US 2004-822237	A	20040409		

CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
------------	-------	------------------------------------

WO 2004092152	ICM	C07D307-60
---------------	-----	------------

AB An addition reaction process for making 3-allylsuccinic anhydride from maleic anhydride and propylene in the presence of **organotin** chloride catalysts (e.g., dimethyltin dichloride) is described.

ST allylsuccinic anhydride prepn propylene catalytic addn maleic

IT Addition reaction
Addition reaction catalysts

(addition reaction process for making 2-allylsuccinic anhydride from maleic anhydride and propylene in the presence of **organotin** chloride catalysts)

IT Hydrocarbons, uses

RL: NUU (Other use, unclassified); USES (Uses)

(solvents; addition reaction process for making 2-allylsuccinic anhydride from maleic anhydride and propylene in the presence of **organotin** chloride catalysts)

IT 683-18-1, Dibutyltin dichloride 753-73-1, Dimethyltin dichloride
866-55-7, Diethyltin dichloride 1066-45-1, Trimethyltin chloride
1066-57-5, Ethyltin trichloride 1118-42-9, Dipentyltin dichloride
1118-46-3, Butyltin trichloride 1124-19-2, Phenyltin trichloride
2767-41-1, Dihexyltin dichloride 3091-14-3 3091-19-8 19429-30-2,
Di(tert-butyl)tin dichloride 27440-57-9, sec-Butyltin
trichloride 103110-67-4, tert-Butyltin trichloride

RL: CAT (Catalyst use); USES (Uses)

(addition reaction process for making 2-allylsuccinic anhydride from maleic anhydride and propylene in the presence of **organotin** chloride catalysts)

IT 7539-12-0P, Allylsuccinic anhydride

RL: IMF (Industrial manufacture); PREP (Preparation)

(addition reaction process for making 2-allylsuccinic anhydride from maleic anhydride and propylene in the presence of **organotin** chloride catalysts)

IT 108-31-6, Maleic anhydride, reactions 115-07-1, Propene, reactions

RL: RCT (Reactant); RACT (Reactant or reagent)

(addition reaction process for making 2-allylsuccinic anhydride from maleic anhydride and propylene in the presence of **organotin** chloride catalysts)

RE.CNT 1 THERE ARE 1 CITED REFERENCES AVAILABLE FOR THIS RECORD

RE

(1) van Melsen; US 2297039 A 1993 CAPLUS

=>